

Name: _____

CC2, Class 5, ElShakhs

Weekly Math Homework Packet 03-24 to 04-01

Homework Effort Score				Assign Date	Due Date	Section	Classwork	Homework
100%	75%	50%	Missing					
				Mon 3/24	Tues 3/25	6.2.7	6-128, 129, 134,	6-133, 135, 6-137 to 139
				Tues 3/25	Wed 3/26	Closure	6-106, 108, 109	Practice Problems 6-140, 144,
				Wed 3/26	Thurs 3/27		Problem 103	
				Thurs 3/27	Fri 3/28	TT	Team Test Chapter 6	Practice Problems
				Fri 3/28	Tues 4/01	7.1.1	7-8, 7-11, Graph Reviews, 7-10, 7-14	7-12, 7-24, 7-25, Practice Problems

Remember – Homework help available at www.cpm.org

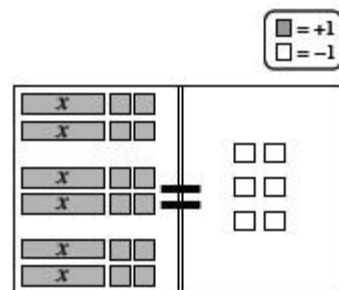
Monday Classwork

6-128. Nick tried to use a symbolic method to solve $3x - 6 = 27$, but he may have made a mistake. His work is shown below. If he did make a mistake, on which step did he first make a mistake, and what was his mistake? If he did not make a mistake, **check his solution** and write “all correct.”

$$\begin{array}{r}
 3x - 6 = 27 \\
 +6 = +6 \\
 \hline
 3x = 33 \\
 \frac{3x}{3} = \frac{33}{3} \\
 x = 11
 \end{array}$$

6-129. Nick represented the equation $3(2x + 4) = -6$ on the Equation Mat below.

- Choose a strategy to solve for x . You may continue to use algebra tiles, or you may use symbols on paper.
- Check your answer.** If your answer does not make the equation true, try solving the equation using a different strategy.



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6-134. One way of thinking about solving equations is to work to get the variable terms on one side of the equation and the constants on the other side. Consider the equation $71 = 9x - 37$.

- As a first step, you could subtract 71 from both sides, or divide both sides by 9, or add 37 to both sides of the equation. Does one of these steps get all of the variable terms on one side of the equation and the constants on the other?
- Solve $71 = 9x - 37$ for x . Show your steps. Check your answer in the second grid

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Monday Homework

6-133. Use any method to solve the following equations. Show your work and check your solutions.

a. $3x + 4 = -5$

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b. $3(x + 4) = -3$

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c. $3(x + 4) = x + 2(x + 6)$

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d. $3x + 4 = 3x - 4$

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6-135. For each equation below, solve for x . Sometimes the easiest strategy is to use mental math.

a. $x - \frac{2}{3} = \frac{1}{3}$

b. $4x = 6$

c. $x + 4.6 = 12.96$

d. $\frac{x}{7} = \frac{3}{7}$

6-137. Evaluate each expression.

a. $1.2 - 0.8$

b. $-4 - (-2)$

c. $-\frac{6}{11} - \left(-\frac{1}{4}\right)$

d. $\frac{2}{3} \cdot \frac{2}{5}$

e. $0.6 \cdot 8$

f. $-\frac{5}{4} \cdot \frac{8}{13}$

6-138. Rewrite each fraction below as an equivalent fraction, as a decimal, and as a percent.

a. $\frac{6}{18}$

b. $\frac{7}{20}$

c. $\frac{9}{10}$

d. $\frac{4}{25}$

6-139. This problem is a checkpoint for writing and evaluating algebraic expressions. It will be referred to as Checkpoint 6.



Change each phrase into an algebraic expression.

- a. Six more than x .
- b. Five less than y .
- c. Twice a number x , increased by 3.
- d. The product of 5 and y .
- e. Evaluate each expression in parts (a) through (d) using $x = 5$ or $y = 8$.

If you needed help solving these problems correctly, then you need more practice. Review the [Checkpoint 6 materials](#) and try the practice problems. Also, consider getting help outside of class time. From this point on, you will be expected to do problems like these quickly and easily.

Tuesday Classwork

6-87. Solve each equation. Record your work and check your solution.

a. $5(x - 2) + (-9) = -7(1 - x)$

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b. $-6x - 7 = -1(-9 + 2x)$

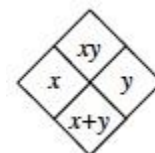
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CL 6-146. Alejandra has been practicing her free-throw shots as she gets ready for basketball season. At her last practice, she made 70% of her shots from the free-throw line. If she shot the ball 130 times:

- How many times did she make a free-throw?
- How many times did she miss? What percentage of her shots did she miss?

CL 6-147. Copy and complete each of the Diamond Problems below. The pattern used in the Diamond Problems is shown at right.



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CL 6-148. Simplify each expression.

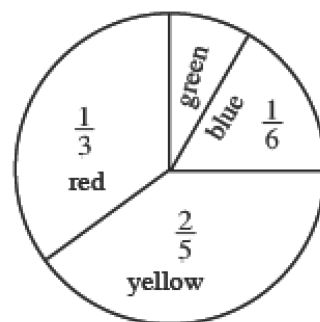
a. $\frac{3}{8} + \left(-\frac{4}{6}\right) - \frac{1}{3}$

b. $-\frac{5}{7} + \frac{4}{9} - \left(-\frac{2}{3}\right)$

c. $\frac{2}{5} \cdot \frac{3}{8} - \frac{3}{4}$

d. $-\frac{6}{11} + \left(-\frac{2}{3}\right) - \frac{5}{6}$

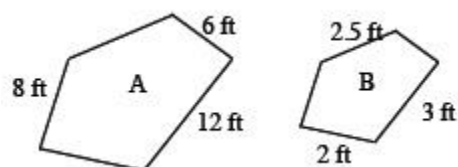
CL 6-142. Serena found the spinner at right. Help her find the probability of spinning each of the following colors on the spinner.



- What is the P(yellow or blue)?
- What is the P(not red)?
- What is the P(green)?

CL 6-143. The shapes at right are similar.

- What is the scale factor?
- What are the lengths of the missing sides?



CL 6-144. Solve this problem by using the 5-D Process or writing and solving an equation. No matter which you method you use, be sure to define your variable and write an equation to represent the relationship.

A rectangle has a perimeter of 30 inches. Its length is one less than three times its width. What are the length and width of the rectangle?

<u>Draw / Describe:</u>					
<u>Define:</u>				<u>Do:</u>	<u>Decide:</u>
Trial 1					
Trial 2					
Trial 3					
<u>Declare:</u>					

Wednesday Classwork:

Today is Fly-up and so we will have a shorter class. Students will work on Problem 6-103 from the textbook.

Wednesday / Thursday Homework (all students)

Robin multiplied 8 times a number. The answer was 48. What was Robin's number?

Equation:

Solution:

Jerry thought of a number. Then he multiplied it by 5. The answer came out to be 45. What was Jerry's number?

Equation:

Solution:

Jennifer started out with 8 dollars. Then she got some more money for her birthday. She ended up with 15 dollars. How much did she get for her birthday?

Equation:

Solution:

7 times some number is 28. What is the number?

Equation:

Solution:

$\begin{aligned} 3x + 5x &= 6x + 28 - 2x \\ 8x &= \cancel{4x} + 28 \\ \underline{-4x} \quad \underline{-4x} \\ 4x &= 28 \\ x &= 7 \end{aligned}$	$6x + 5x = 3x + 2x - 54$	$7x - 3x = 6x + 14 - 4x$
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$3x + x = 4x + 24 - 6x$	$5x + 7x = 3x + 6x - 36$	$14x - 10x = 3x + 16$
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Thursday Classwork:

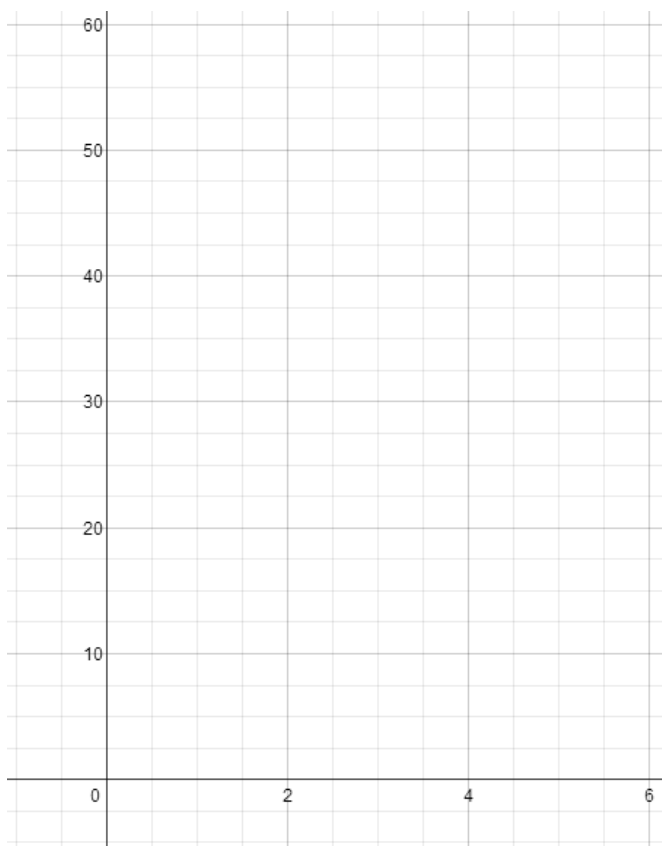
Today is the Chapter 6 Team Test

Friday Classwork:

7-8. Bella wants to use her toy car to deliver a secret note to Edward, who is sitting all the way across the cafeteria, approximately 20 meters from her. She plans to get the car started and then leave the cafeteria so Edward will not see her. If her car travels at 1.1 meters per second, about how much time will she have to get out of the cafeteria before Edward gets the note?



7-11. Make a graph to show the relationship between distance and time for a bicycle that travels 10 miles every hour.



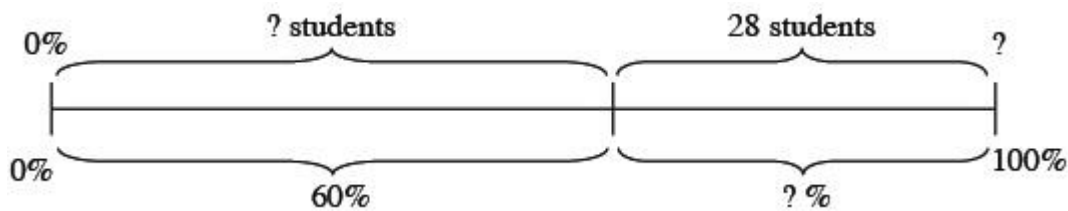
7-10. It took Ivan $7\frac{1}{2}$ hours to drive 412.5 miles at a constant speed. How fast was he driving? Show how you know.

7-14. Sao can text 1500 words per hour. He needs to text a message with 85 words. He only has 5 minutes between classes to complete the text. Can he do it in 5 minutes?

Friday Homework:

7-12. Twenty-five percent of the students at Marcus Garvey Middle School bring their lunches from home. 225 students do not bring their lunch. How many students attend the school? Draw and label a diagram to show the number and percent of each group of students.

7-24. Copy the diagram below on your paper. Use the given information to fill in all of the missing labels.



7-25. Alan is making a bouquet to take home to his grandmother. He needs to choose one kind of greenery and one kind of flower for his bouquet. He has a choice of ferns or leaves for his greenery. His flower choices are daisies, carnations, and sunflowers.

- Draw a tree diagram to show the different bouquets he could make. How many are there?
- What is the probability that he will use ferns?
- What is the probability that he will not use sunflowers?
- What is the probability that he will use leaves and carnations?

$26 + 2x + 6 = 8x - 2x$ $32 + \cancel{2x} = \cancel{6x}$ $\quad \quad \underline{-5x} \quad \underline{-2x}$ $32 = 4x$ $x = 8$	$x + x + 48 = 3x + 5x$	$9x - 6x + 36 = 7x - 2x$
$8x - x - 40 = 10x + x$	$3x + 3x + 3 = 3x$	$6x + 8x - 36 = 3x + 5x$

$3x + 3(5x - 7x) = 12 - x$	$9 - 4(7x - 8x) = x - 3$
$3(2x - 3) - 9x - 4 = 2x + 12$	$-2x - 18 = 6(1 - 2x) + 4x$